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DATE MAILED: 09/10/2003

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
09/873,218	06/05/2001	Kenji Matsumoto	Q64809	4028
7.	590 09/10/2003			
SUGHRUE, MION, ZINN, MACPEAK & SEAS, PLLC			EXAMINER	
2100 Pennsylvania Avenue, N.W. Washington, DC 20037-3202		NGUYEN, TUAN M		
	•		. ART UNIT	PAPER NUMBER
			2828	

Please find below and/or attached an Office communication concerning this application or proceeding.

		A S				
•	Application N .	Applicant(s)				
<i>o</i>	09/873,218	MATSUMOTO, KENJI				
Office Action Summary	Examin r	Art Unit				
	Tuan M Nguyen	2828				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPL THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1. after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a rep - If NO period for reply is specified above, the maximum statutory period - Failure to reply within the set or extended period for reply will, by statute - Any reply received by the Office later than three months after the mailin earned patent term adjustment. See 37 CFR 1.704(b). Status	136(a). In no event, however, may a reply within the statutory minimum of thirty will apply and will expire SIX (6) MON e, cause the application to become AB.	eply be timely filed y (30) days will be considered timely. THS from the mailing date of this communication. ANDONED (35 U.S.C. § 133).				
1) Responsive to communication(s) filed on 22	<u>May 2003</u> .					
2a) ☐ This action is FINAL . 2b) ☑ The	a) This action is FINAL . 2b) This action is non-final.					
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims						
4) Claim(s) 1-5 is/are pending in the application.						
4a) Of the above claim(s) is/are withdra	iwn from consideration.					
5) Claim(s) is/are allowed.						
6) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) 1-5 is/are rejected. 7) ☐ Claim(s) is/are objected to. PAUL IP						
7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/o	or election requirement.	SUPERVISORY PATENT EXAMINER TECHNOLOGY CENTER 2800				
9) The specification is objected to by the Examiner.						
10)⊠ The drawing(s) filed on is/are: a)⊠ accepted or b)□ objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
11) The proposed drawing correction filed on is: a) approved b) disapproved by the Examiner.						
If approved, corrected drawings are required in reply to this Office action.						
12)☐ The oath or declaration is objected to by the Examiner.						
Priority under 35 U.S.C. §§ 119 and 120						
13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).						
a)⊠ All b)□ Some * c)□ None of:						
1. Certified copies of the priority documents have been received.						
2. Certified copies of the priority documents have been received in Application No						
 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 						
14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).						
a) ☐ The translation of the foreign language pro						
Attachment(s)						
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449) Paper No(s)	5) Notice of Ir	Summary (PTO-413) Paper No(s) nformal Patent Application (PTO-152)				

Application/Control Number: 09/873,218

Art Unit: 2828

DETAILED ACTION

Drawings

1. The informal drawings filed on 12-10-2002 which are acknowledge and acceptable for examination purposes only. Formal drawings will be required when the application is allowed.

Claim Rejections - 35 USC § 102

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1-5 are rejected under 35 U.S.C. 102(b) as being anticipated by Horie et al (US patent 5,920,767).

With respect to claims 1-5, Horie et al shows in figure 6 an active layer (104) and a plurality of layers in parallel with said activation layer, a first groove (120) penetrating through at least some of said plurality of layers, selectively etching a specified layer (10) among at least some of plurality of layers through which said first groove penetrates, said etching extending from both sides of the first groove to a predetermined position in said specified layer, thus forming a pair of second grooves (on both sides of etching stop layer (10)), filling up said second grooves with material SiN_x having a refractive index higher than that of said specified layer (10) made of GaAs, thus forming two portions having said high equivalent refractive index, note col. 9 line 34 to col. 10 line 48.

Response to Arguments

3. Applicant's arguments with respect to claims 1-5 have been considered but are moot in view of the new ground(s) of rejection.

Communication Information

4. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Tuan M Nguyen whose telephone number is (703) 306-0247. The examiner can normally be reached on 8am to 5pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Paul Ip can be reached on (703) 308-3098. The fax phone numbers for the organization where this application or proceeding is assigned are (703) 872-9318 for regular communications and (703) 872-9319 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 306-3329.

Paul Ip

SPE

Art unit 2828

TMN

September 4, 2003